

ABSTRACT OF THE DISCLOSURE

A spin pack assembly for spunbond production for constructing spunbond fabrics or laminates composed of bicomponent filaments that includes a spinneret, one or more distribution plates, a dual-chamber spin pack housing for polymer A and polymer B, and a diversion frame in each polymer housing chamber in conjunction with a screen and screen support to provide uniform polymer flow to the distribution plate for large-scale spin pack length-to-width ratio and for use with a large number of holes, up to 6,000 per meter. The present invention provides an even and accurate distribution of the polymer flow to insure uniform fabric in thickness and weight basis to be produced.